

WHAT IS CLAIMED IS;

1. A manufacturing method of rotor core to be fixed around a rotary shaft facing each other, by which, while an intermediate blank having multiple magnetic pole claws that protrude in the same coaxial direction on a circumference and the inner perimetric surface of the magnetic pole claw are constrained by a die and a forming pressure is applied in a radial direction, a tapered surface on the outer perimetric end of the magnetic pole claw and a permanent-magnet fastener on the inner perimetric end are formed.

2. A manufacturing method of rotor core according to Claim 1, wherein the tapered surface on the outer perimetric end of the magnetic pole claw and a permanent-magnet fastener on the inner perimetric end are formed in the same process by the forming force applied.

3. A manufacturing method of rotor core according to Claim 1, wherein the tapered surface on the outer perimetric end of the magnetic pole claw and a permanent-magnet fastener on the inner perimetric end are formed at the same time by the forming force applied.

4. A manufacturing method of rotor core according to Claim 1, wherein the die, comprising multiple component parts, forms with pressure the intermediate blank and the inner perimetric surface of the magnetic pole claw.

5. A manufacturing method of rotor core according to Claim 1, wherein the tapered surface and fastener on

one end of said rotor core are respectively formed on said outer and said inner perimetric ends of said rotor core.

5 6. A manufacturing method of rotor core according to Claim 5, wherein those of the magnetic pole claws are formed all together while the inner perimetric surfaces of all magnetic pole claws are constrained by a die at the same time.

10 7. A manufacturing method of rotor core according to Claim 6, wherein those of each magnetic pole claw are formed while the inner perimetric surface of each magnetic pole claw is constrained individually by a die.

15 8. A manufacturing method of rotor core according to Claim 1, wherein unnecessary portion is trimmed off from the permanent-magnet fastener.

9. A manufacturing method of rotor core according to Claim 1, wherein the tapered surface and permanent-magnet fastener are adjusted in their volume so that they are formed into each specified shape.

20 10. A manufacturing method of rotor core according to Claim 1, wherein the intermediate blank and magnetic pole claw are fastened together by a constraint force applied from the plate portion that continues the magnetic pole claws of the intermediate blank with each
25 other.

11. A manufacturing method of generator, comprising a process of forging a rotor core to be fixed around a rotary shaft facing each other, a process of constraining

by a die an intermediate blank having multiple magnetic pole claws that protrude in the same coaxial direction on a circumference and the inner perimetric surface of the magnetic pole claw, and a process of applying a forming pressure in a radial direction so as to form a tapered surface on the outer perimetric end of the magnetic pole claw and a permanent-magnet fastener on the inner perimetric end at the same time.

12. A manufacturing method of generator according to Claim 11, wherein the tapered surface and fastener on one end are formed at the same time on the inner and outer perimetric ends in the same circumferential direction, respectively.

13. A manufacturing method of generator according to Claim 11, wherein those of the magnetic pole claws are formed all together while the inner perimetric surfaces of all magnetic pole claws are constrained by a die at the same time.

14. A manufacturing method of generator according to Claim 11, wherein those of each magnetic pole claw are formed while the inner perimetric surface of each magnetic pole claw is constrained individually by a die.